

THE MANURE ECONOMY
DIE "GÜLLEWIRTSCHAFT"
LA "ECONOMIA DEL LETAME"



What Could a Farm Be?

EXPLORATION #05

Multi-Level Perspective
(MLP) framework
in the MILK SYSTEM of
South Tyrol:

Multi-Level-Perspektive
(MLP) Rahmenwerk
im Südtiroler MILCH-
SYSTEM:

Help to visualize in every Level
the key actors and take into
account their influence on the territory

Hilft in jeder Ebene die Wirkung vom
die Hauptakteure zu visualisieren und
wie viel Einfluss haben auf das Territorium

LEVEL / EBENE

Note: The Multi-Level Perspective framework is based upon the following article - Geels, F.W. and Schot, J. 2007. Typology of sociotechnical transition pathways. *Research Policy* 36 (2007), 399-417.

MACRO LEVEL

the socio-technical landscape

Many actors here exert a global or regional geo-political influence on agricultural markets and modes of production and consumption. Consumers worldwide were also seen as a key influence on the socio-technical landscape. The environment or nature – Other living beings (insects, animals) and climate, specifically climate change.

MACRO EBENE

die sozio-technische Landschaft

Viele Akteure üben hier einen globalen oder regionalen geopolitischen Einfluss auf die Agrarmärkte und Produktions- und Konsumweisen aus - zum Beispiel die EU-Politiker (die Gemeinsame Agrarpolitik), die EU-Milchvermarktungsorganisation. Internationale Exportunternehmen. Andere Faktoren haben Einfluss, wie z.B. Kaufgewohnheiten der Verbraucher, andere Lebewesen (Tiere, Insekten) und die Klimaerwärmung.

MESO LEVEL

the socio-technical regime

This level is represented at the regional, provincial and territorial scale. (Markets, user preferences; Industry; Science; Policy; Culture; Technology)

MESO EBENE

das sozio-technische System

Diese Ebene ist in der Region vertreten, provinzielle und territoriale Größe. (Märkte, Benutzerpräferenzen; Industrie; Wissenschaft; Politik; Kultur; Technologie)

MICRO LEVEL

niche innovations

Focused on a local scale of production or consumption. Producers focus on local markets, user preferences; Industry; Policy; Culture.

MICRO EBENE

Nischeninnovationen

Fokussiert auf die lokale Größenordnung von Produktion oder Konsum. Die Produzenten konzentrieren sich auf lokale Märkte, Nutzerpräferenzen, sind aber entweder von Industrie, Politik, Kultur beeinflusst oder bieten eine gegenläufige Form der Produktion.

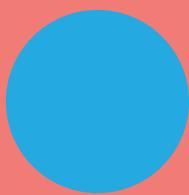
WHO is involved? A

/ WER ist beteiligt?

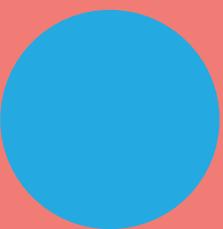
ACTORS / AKTOREN



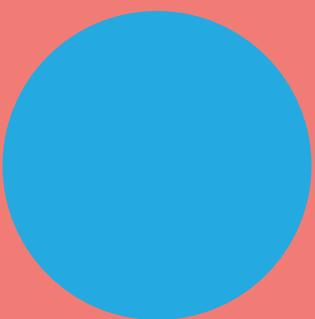
individuals
Einzelpersonen



family or small social group
Familie oder kleine Gruppe



small / medium
cooperative, companies
or municipalities
klein / mittel
Genossenschaft,
Unternehmen
oder Stadtverwaltungen



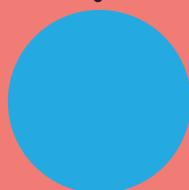
big companies
or institutions
große Unternehmen
oder Institutionen

EXAMPLE / BEISPIELE

CIVIL SOCIETY

association, community, activist,
retired, unpaid, volunteer, ONG.

—> quality of life, support and help,
external to the economic system



SMALL PRODUCER

farmer, artisan, craftsmen,
cooperative, small distribution.

—> local market, product
quality, small scale production

TERTIARY

self employer, worker,
service sector.

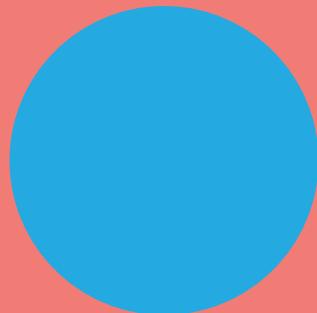
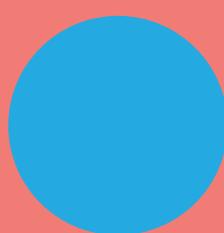
—> influence and being influenced
by the relation with producer and
consumer

INSTITUTION
education, municipality, region,
government, EU, bank,
international organization.

—> financing, rules/law,
socio-economic balance.

PRIVILEGED OBSERVER
research center, media,
academic people.

—> overall view, analysis ability,
depending on external financing



BIG PRODUCER
corporation, factory, big
distribution, company.

—> international market,
large scale production,
large influence on economy.

MILCH MAP / MILCHKARTE





EXERCIZE 1 / ÜBUNG 1

example

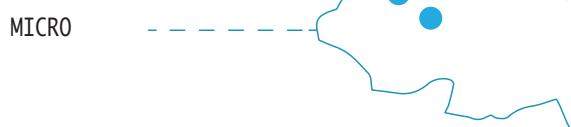
MACRO

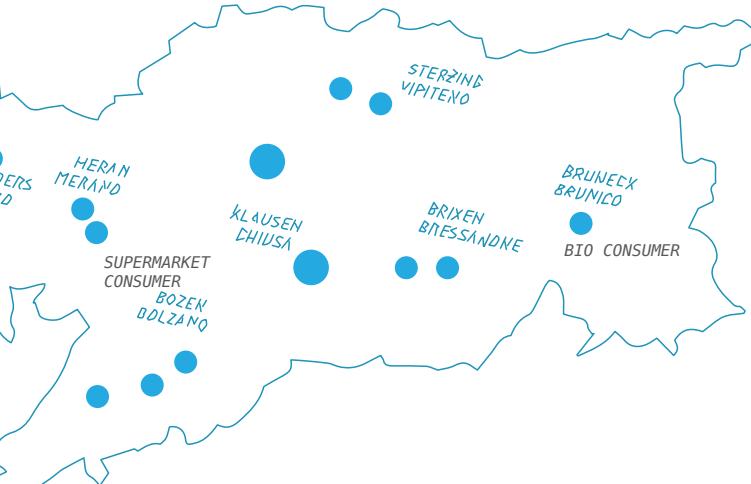
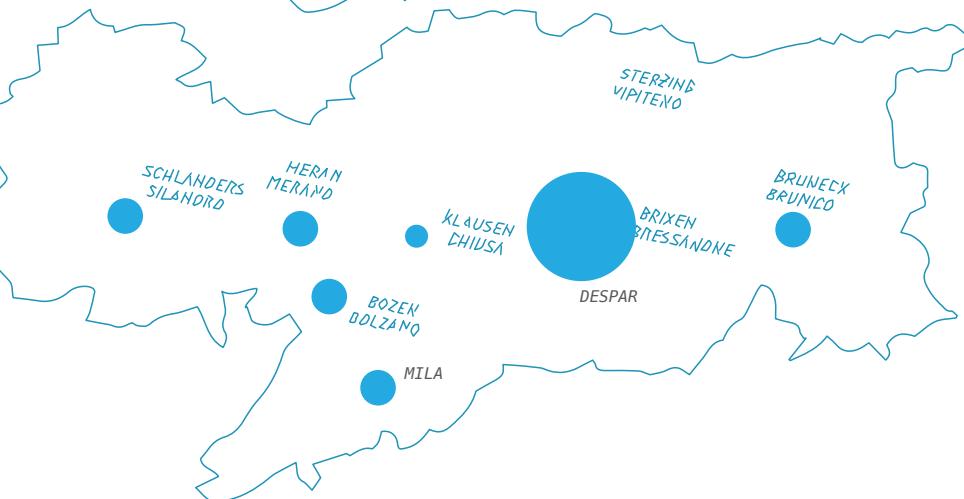
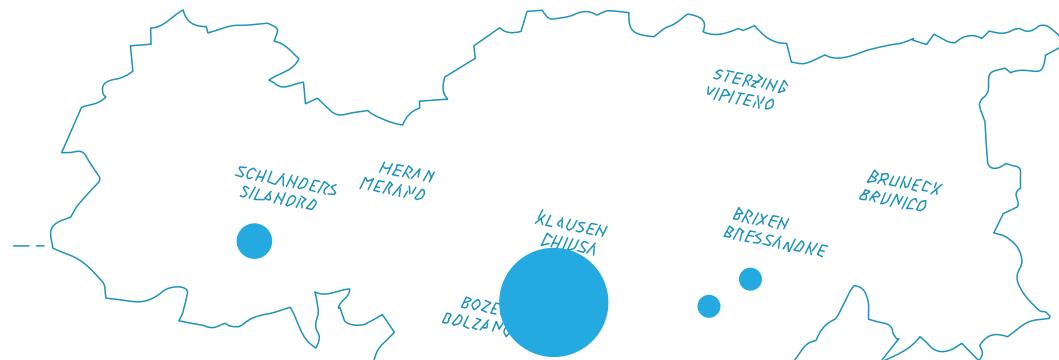


MESO



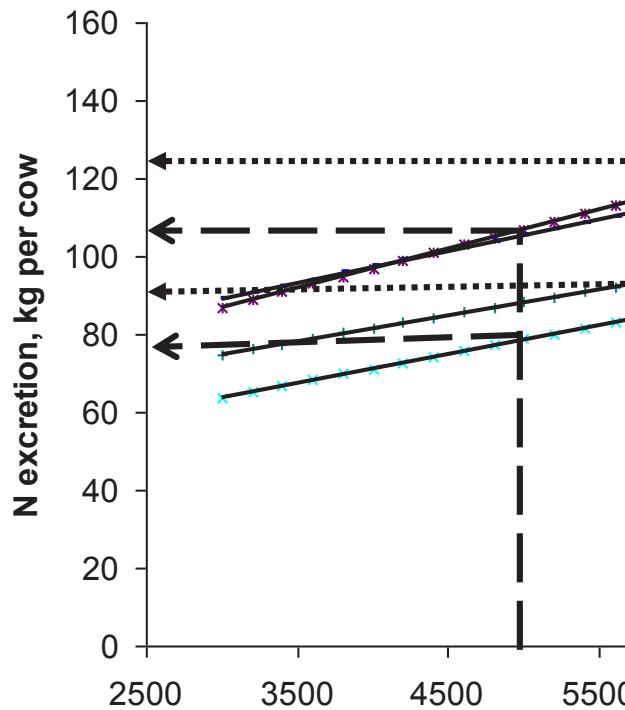
MICRO





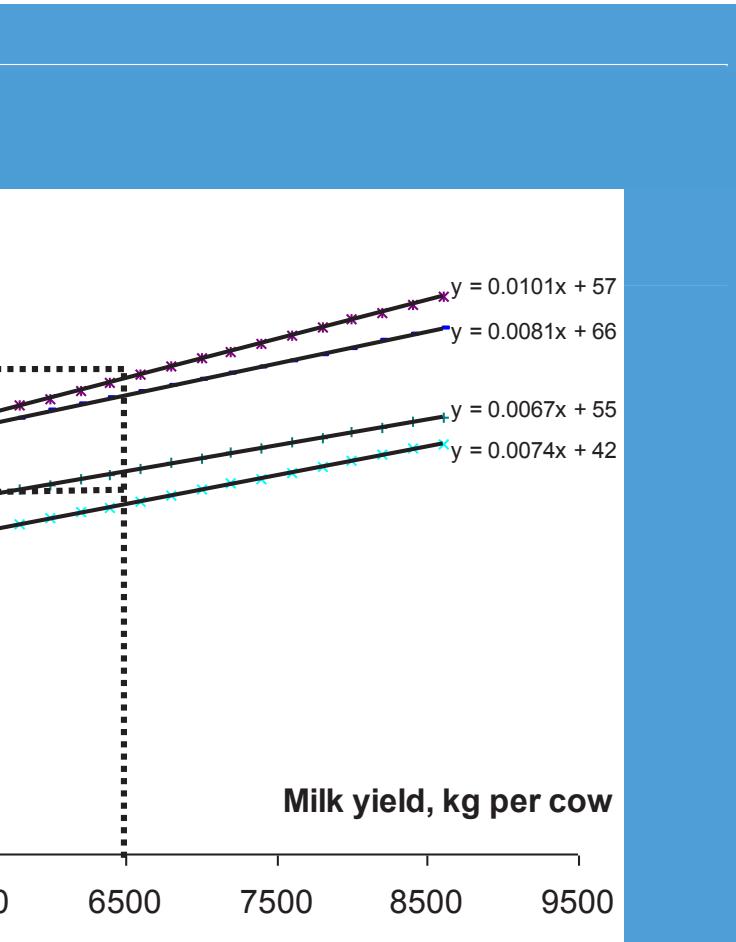
NITROGEN EXCRETION / MILK

N excretion dairy cattle as function of
milch yield



WAGENINGEN UR

For quality of life



© Oene Oenema, Wageningen UR

Oenema, O. 2012. Livestock production and manure management in EU-27. Presentation made at ReUseWaste kick off meeting, Copenhagen, Denmark, September 24-26, 2012

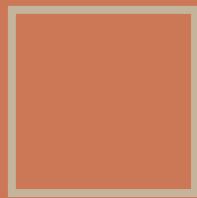
WHO is in the shit? A

/ WER steckt in der Scheiße?

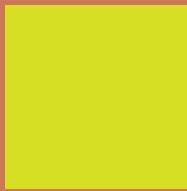
CATEGORIES / KATEGORIEN



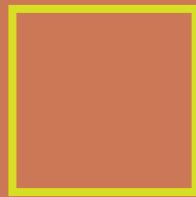
PRIMARY PRODUCER
PRIMÄR PRODUZENT



SECONDARY PRODUCER
SEKUNDÄRER PRODUZENT



PRIMARY CONSUMER
PRIMÄR VERBRAUCHER

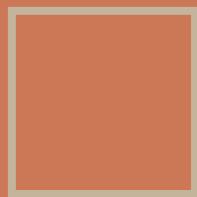


SECONDARY CONSUMER
SEKUNDÄRER VERBRAUCHER

EXAMPLE / BEISPIELE

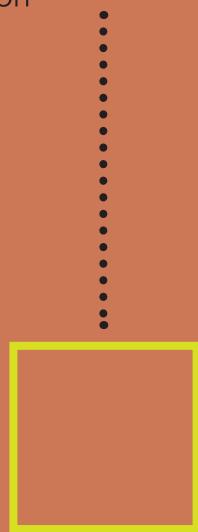
PRIMARY MANURE PRODUCER

e.g. the farmer with milk-giving animals (cows, goats, sheep...) or animals for meat (cows, goats, sheep, pigs, chickens...)



SECONDARY PRODUCER OF
MANURE PRODUCTS OR SERVICES
e.g. commercial compost maker; biogas harvester...

SECONDARY MANURE CONSUMER
e.g. biogas consumer; electrical energy
from biogas production



PRIMARY MANURE CONSUMER
e.g. garden compost users

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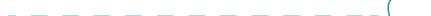
EXERCIZE 2 / ÜBUNG 2

example

MACRO



MESO

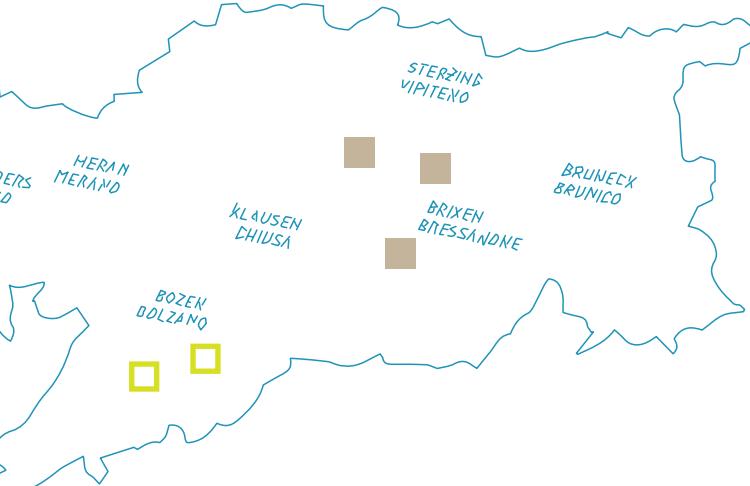
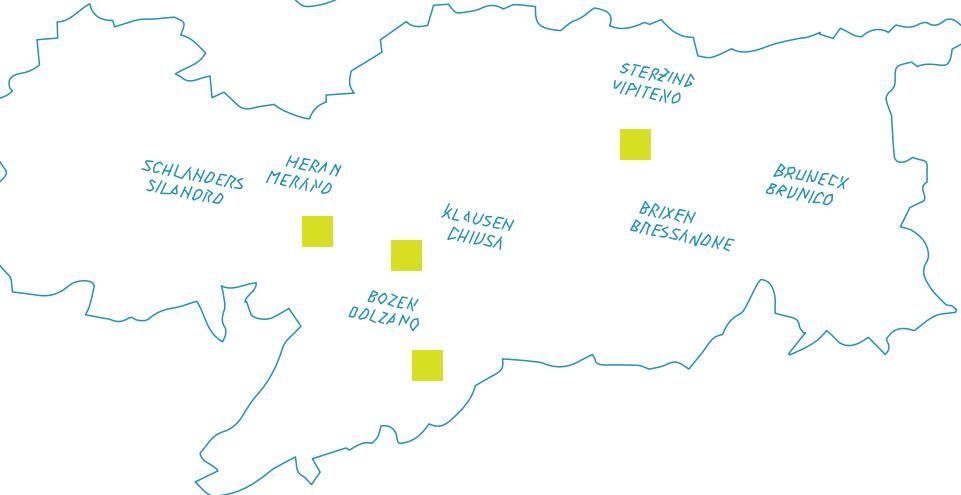
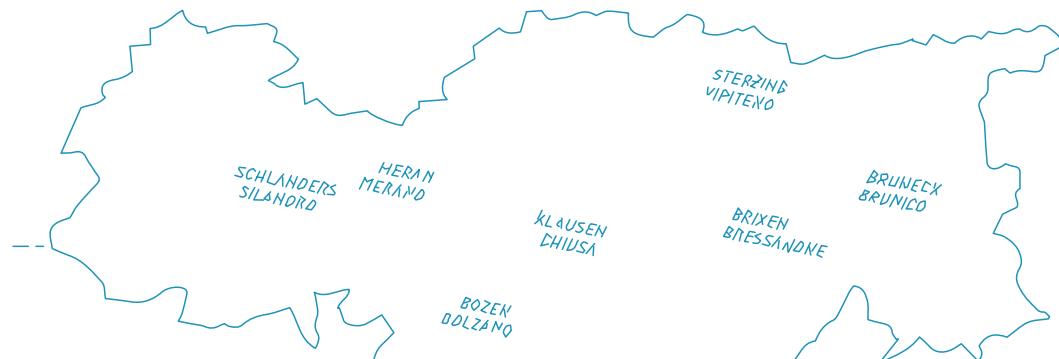


MICRO



SCHLAND
SILANDR





NOTE / NOTIZIEN

MLP tool and map

Alastair Fuad-Luke
Martina Dandolo



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